

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
1750 Chestnut Street Tower II

JUN 23 1982

June 1, 1982

22 JUN 4 410:23

Mr. James P. O'Reilly, Director  
U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 - DOCKET  
NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - REPORTABLE OCCURRENCE  
REPORT BFRO-50-259/80031 - REVISION 1

The enclosed report is a supplement to J. R. Calhoun's letter to you dated  
May 14, 1980, concerning an electrical fault on the normal feeder to 480-volt  
shutdown board 1B which caused loss of power to 480-volt shutdown board 1B  
during a 4-kV shutdown bus 2 transfer. This report is submitted in accordance  
with Browns Ferry unit 1 Technical Specification 6.7.2.b(2).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*J. A. Green*  
J. A. Green  
Director of Nuclear Power

Enclosure

cc (Enclosure):

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Records Center  
Institute of Nuclear Power Operations  
1820 Water Place  
Atlanta, Georgia 30339

NRC Inspector, Browns Ferry

*IS 22*

8206110292 820601  
PDR ADOCK 05000259  
S PDR

44 Bush Oyster Bay, E. 11-11-82

# LICENSEE EVENT REPORT

PREVIOUS REPORT DATE 5/14/80

CONTROL BLOCK: 

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	A	L	B	R	F	1	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4					5				
7	8	LICENSEE CODE							14	LICENSE NUMBER										25	LICENSE TYPE					30	CAT					58			

CON'T

0 1 7 8

REPORT SOURCE L 6 0 5 0 0 0 2 5 9 7 0 4 1 5 8 0 8 0 6 0 1 8 2 9

60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | With the unit operating normally, during a 4kV shutdown bus 2 transfer a fault on  
0 3 | the normal feeder bus from TS1B to 480-V SD Bd 1B caused loss of power to 480-V  
0 4 | SD Bd 1B. Due to this loss of power, 1B recirculation pump MG set tripped and 1B  
0 5 | SLC pump became inoperable. Reference T.S. 3.9.B, 3.6.F.1, and 3.4.A. There  
0 6 | was no danger to health or safety of the public. No previous occurrence. 480-V  
0 7 | shutdown Bd 1A was operable.

0	8	
7	8	9

SYSTEM CODE E D (11)		CAUSE CODE E (12)		CAUSE SUBCODE A (13)				COMPONENT CODE E L E C O N (14)				COMP. SUBCODE Z (15)		VALVE SUBCODE Z (16)			
LER/RO REPORT NUMBER 8 0 (17)		EVENT YEAR 8 0 (21) 22		SEQUENTIAL REPORT NO. 0 3 1 (24) 26		OCCURRENCE CODE 0 3 (28) 29		REPORT TYPE X (30)		REVISION NO. 1 (32)							
ACTION TAKEN C (18) 33		FUTURE ACTION X (19) 34		EFFECT ON PLANT Z (20) 35		SHUTDOWN METHOD Z (21) 36		HOURS 0 0 0 0 (22) 37 40		ATTACHMENT SUBMITTED Y (23) 41		NPRD-4 FORM SUB. N (24) 42		PRIME COMP. SUPPLIER L (25) 43		COMPONENT MANUFACTURER G 0 8 0 (26) 44 47	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1	0	Event caused by fault condition at busway joint above the board. Board reenergized
1	1	from alternate source. New bus installed 7 days later. GE armor-clad busway,
1	2	Model AFS-1, 1600A, 600V, 3 phase 3 wire. Cause was loose busway bolt. Joints will
1	3	be checked and normal feeder bus meggered during refueling outages until verification
1	4	that bolting retains tightness.

FACILITY STATUS						% POWER		OTHER STATUS		METHOD OF DISCOVERY	DISCOVERY DESCRIPTION	
1	5	E				0	9	6		NA	A	Operator observed

ACTIVITY CONTENT  
RELEASED OF RELEASE

1 6 Z (33) Z (34) NA AMOUNT OF ACTIVITY (35)

7 8 9 10 11 44

NA LOCATION OF RELEASE (36)

45

PERSONNEL EXPOSURES									
NUMBER			TYPE		DESCRIPTION				
1	7		0	0	0	(37)	Z	(38)	NA

PERSONNEL INJURIES		NUMBER		DESCRIPTION	
1	2	3	4	5	6
		0	0	0	NA

LOSS OF OR DAMAGE TO FACILITY (43)  
TYPE DESCRIPTION NA  
1 2 Z (42) S PDR ADOCK 050000259 PDR

ISSUED Y (44) DESCRIPTION (45) Local press notified of bus fault. NRC USE ONLY

NAME OF PREPARER Stanley W. Solley

PHONE: (205) 729-0798

000 017.926

LER SUPPLEMENTAL INFORMATION

BFRO-50- 259 / 80031 R1 Technical Specification Involved 3.9.B, 3.6.F.1 & 3.4.A

Reported Under Technical Specification 6.7.2.b(2) \* Date Due NRC \_\_\_\_\_

Date of Occurrence 4/15/80 Time of Occurrence 0714 Unit 1

Identification and Description of Occurrence:

During a 4kV shutdown bus 2 transfer a fault on the normal feeder bus from TS1B to 480-V shutdown bd. 1B caused a loss of power to 480-VSD Bd 1B. Due to this loss of power 1B recirculation pump MG set tripped and 1B SLC pump became inoperable.

Conditions Prior to Occurrence:

Unit 1 @ 96%

Unit 2 @ 97%

Unit 3 @ 98%

Action specified in the Technical Specification Surveillance Requirements met due to inoperable equipment. Describe.

Board reenergized from alternate feed.

Apparent Cause of Occurrence:

Caused by fault condition at busway joint above the board. The apparent cause of the failure was a loose busway bolt.

Analysis of Occurrence:

There was no activity release, no personnel exposure or injury and no danger to health or safety of the public.

Corrective Action:

The busway was replaced 7 days later with new busway. The busway bolts for 480-V shutdown boards 1A, 1B, 2A, 2B, 3A, and 3B were torque checked in accordance with EMI-78 and the bolts on board 1A were found to be loose. During subsequent refueling outages on unit 1 and 3 the busway bolts were torque checked and feeder bus meggered per EMI-78 and no problems were found.

Failure Data:

NA  
Retention: Period - Lifetime; Responsibility - Document Control Supervisor

\*Revision: *Amended*